What is claimed is:

1	1.	An exhaust gas scrubber for removing a chemical component of an exhaust gas of
2		a process chamber located upstream of the scrubber by chemical vapor deposition
3		of a film, the scrubber comprising:
4		a. an enclosure defining a CVD chamber for receiving the exhaust gas, said
5		enclosure having a gas inlet for receiving the exhaust gas from the process
6		chamber and a gas outlet each in fluid communication with said CVD
7		chamber; and
8		b. at least one substrate contained within said enclosure between said gas
9		inlet and said gas outlet, said substrate having a film deposition surface for
10		receiving the film.
1	2.	An exhaust gas scrubber according to claim 1, wherein said at least one substrate
2		is made of quartz.
1	3.	An exhaust gas scrubber according to claim 1, wherein said at least one substrate
2		forms a baffle.
1	4.	An exhaust gas scrubber according to claim 3, wherein said baffle includes a
2		plurality of apertures for allowing the exhaust gas stream to flow through said
3		baffle.
1	5.	An exhaust gas scrubber according to claim 1, further comprising a plurality of
2		said substrates forming a series of baffles within said chamber.

An exhaust gas scrubber according to claim 5, wherein each baffle of said series 6. 1 of baffles includes a plurality of apertures for allowing the exhaust gas stream to 2 flow through each of said series of baffles. 3 An exhaust gas scrubber according to claim 5, wherein said series of baffles are 7. 1 positioned at an angle to define a serpentine or spiral passageway within said 2 CVD chamber. 3 An exhaust gas scrubber according to claim 1, further comprising a heating 8. 1 element for heating at least one of said enclosure and said at least one substrate. 2 An exhaust gas scrubber according to claim 1, wherein said at least one substrate 9. 1 is removable and reusable after the film has been removed. 2 An exhaust gas scrubber according to claim 1, wherein the chemical component 10. 1 of the exhaust gas is silicon. 2 A system for processing a semiconductor wafer with a gas having a chemical 11. 1 component, comprising: 2 a first enclosure defining a first chamber for receiving the semiconductor 3 a. wafer and the gas; and 4 b. a scrubber comprising: 5 a second enclosure defining a second chamber for receiving at least i. 6 a portion of the gas from said first chamber, said second enclosure 7 having a gas inlet in fluid communication with said first chamber 8 and said second chamber and a gas outlet in fluid communication 9 with said second chamber; and

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at least one substrate contained within said second chamber and ii. 11 located between said gas inlet and said gas outlet, said substrate 12 having a film deposition surface for receiving a film composed of 13 the chemical component of the gas. 14 A system according to claim 11, further comprising a pump located between said 12. 1 first chamber and said second chamber for pumping the gas from said first 2 chamber to said second chamber via said gas inlet. 3 A system according to claim 11, further comprising a heating element for heating 13. 1 at least one of said second enclosure and said at least one substrate. 2 A system according to claim 11, further comprising an abatement device for 14. 1 removing at least one component of the exhaust gas not deposited on said 2 substrate. 3 15. A scrubber for scrubbing a gas containing a non-toxic part and a toxic part, the 1 scrubber comprising: 2

with said first chamber, said second chamber for receiving at least a portion of the gas, said second chamber for removing at least a portion of the toxic part from the gas.

exhaust gas by chemical vapor deposition; and

a first enclosure defining a first chamber for receiving the gas, said first

a second enclosure defining a second chamber in fluid communication

chamber for removing at least a portion of the non-toxic part of the

a.

b.

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- 1 16. A scrubber according to claim 15, further comprising a substrate located in said 2 first enclosure, said substrate for receiving by chemical vapor deposition a film 3 containing the non-toxic part of the gas.
- 1 17. A scrubber according to claim 15, wherein the non-toxic part comprises silicon.
- 1 18. A scrubber according to claim 15, wherein the toxic part comprises arsenic.
- 1 19. A method for scrubbing an exhaust gas of a manufacturing process, the exhaust gas comprising a first chemical component and a second chemical component, comprising the steps of:
 - a. flowing the exhaust gas through an enclosure defining a chamber and containing at least one substrate; and
 - b. causing the first chemical component to be chemical vapor deposited onto said at least one substrate.
- 20. A method according to claim 19, further comprising the step of removing the second chemical component from the exhaust gas after performing step b).
- 1 21. A method according to claim 19, wherein step b) is performed by heating at least one of said at least one substrate and said enclosure to at least 800°C.
- 1 22. A method according to claim 21, wherein step b) is performed by heating at least one of said at least one substrate and said enclosure to at least 1100°C.
- 1 23. A method according to claim 19, wherein the first chemical component is nontoxic and the second chemical component is toxic.

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- 1 24. A method according to claim 23, wherein the first chemical component comprises 2 silicon and the second chemical component comprises arsenic.
- 1 25. A method according to claim 19, further comprising after step b) the steps of:
- a. removing said at least one substrate from said enclosure;
- b. cleaning said at least one substrate of any film deposited thereon;
- 4 c. installing said at least one substrate in said enclosure; and
- d. again causing the first chemical component to be chemical vapor deposited onto said at least one substrate.